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<20> TGFβ1-inhibitor peptides

<130> U-013446-9

<140> 09/831,253

<141> 2001-06-27

<150> PCT/ES99/00375

<151> 1999-11-23

<150> P9802465

<151> 1998-11-24

>160> 179

<210> SEQ ID NO: 1

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<212> Peptide

<213> Artificial sequence

<220> Domain

<223> Derived from human TGFβ1 position 319-333

<400> His Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu  
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<210> SEQ ID NO: 2

<211> 14

<212> Peptide

<213> Artificial sequence

<220> Domain

<223> Derived from human TGFβ1 position 322-335

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<210> SEQ ID NO: 3

<211> 12

<212> Peptide

<213> Artificial sequence

<220> Domain

<223> Derived from rat TGFβ1 type III receptor position 731-742

<400> Thr Ser Leu Asp Ala Thr Met Ile Trp Thr Met Met  
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<210> SEQ ID NO: 4

<211> 15

<212> Peptide

<213> Artificial sequence  
<220> Domain  
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<210> SEQ ID NO: 10  
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<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 313-335

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Ile Trp Ser Leu Asp Thr  
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<210> SEQ ID NO: 11

<211> 14

<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 280-293

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<210> SEQ ID NO: 12

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<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 284-297

<400> Asn Tyr Cys Ser Ser Thr Glu Lys Asn Cys Cys Val Arg  
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<210> SEQ ID NO: 13

<211> 14

<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 288-301

<400> Ser Ser Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile  
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<210> SEQ ID NO: 14

<211> 14

<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 294-307

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<210> SEQ ID NO: 15

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<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 298-311

<400> Gln Leu Tyr Ile Asp Phe Arg Lys Asp Leu Gly Trp Lys Trp  
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<210> SEQ ID NO: 16

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<212> Peptide  
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<210> SEQ ID NO: 19  
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<210> SEQ ID NO: 20  
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<220> Domain: 316-329  
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<210> SEQ ID NO: 21  
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<220> Domain: 326-339  
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<213> Synthetic peptide from human TGB $\beta$ 1  
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<210> SEQ ID NO: 23  
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<212> Peptide  
<213> Synthetic peptide from human TGB $\beta$ 1  
<220> Domain: 335-349  
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<210> SEQ ID NO: 24  
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<212> Peptide  
<213> Synthetic peptide from human TGB $\beta$ 1  
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<210> SEQ ID NO: 25  
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<212> Peptide  
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<400> Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly Ala Ser Ala  
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<212> Peptide  
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<400> Leu Tyr Asn Gln His Asn Pro Gly Ala Ser Ala Ala Pro Cys Cys  
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<210> SEQ ID NO: 27  
<211> 14  
<212> Peptide  
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<400> Tyr Asn Gln His Asn Pro Gly Ala Ser Ala Ala Pro Cys Cys  
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<210> SEQ ID NO: 28  
<211> 13  
<212> Peptide  
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<220> Domain: 348-360

<400> Asn Pro Gly Ala Ser Ala Ala Pro Cys Cys Val Pro Gln  
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<210> SEQ ID NO: 29

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<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 350-363

<400> Gly Ala Ser Ala Ala Pro Cys Cys Val Pro Gln Ala Leu Glu  
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<210> SEQ ID NO: 30

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<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 354-367

<400> Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro Ile  
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<210> SEQ ID NO: 31

<211> 14

<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 358-371

<400> Val Pro Gln Ala Leu Glu Pro Leu Pro Ile Val Tyr Tyr Val  
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<210> SEQ ID NO: 32

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<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 364-377

<400> Pro Leu Pro Ile Val Tyr Tyr Val Gly Arg Lys Pro Lys Val  
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<210> SEQ ID NO: 33

<211> 14

<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 368-381

<400> Val Tyr Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser  
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<210> SEQ ID NO: 34

<211> 14

<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 372-385

<400> Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn Met Ile Val  
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<210> SEQ ID NO: 35

<211> 14

<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 378-391

<400> Glu Gln Leu Ser Asn Met Ile Val Arg Ser Cys Lys Cys Ser  
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<210> SEQ ID NO: 36

<211> 21

<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 322-344

<400> Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp Thr Gln Lys Val  
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Leu Ala Leu Tyr

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<210> SEQ ID NO: 37

<211> 14

<212> Peptide

<213> Synthetic peptide modified from human TGB $\beta$ 1

<220> Domain: 322-335

<400> Phe Ser Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp Thr  
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<210> SEQ ID NO: 38

<211> 14

<212> Peptide

<213> Synthetic peptide modified from human TGB $\beta$ 1

<220> Domain: 322-335

<400> Phe Cys Leu Gly Pro Ser Pro Tyr Ile Trp Ser Leu Asp Thr  
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<210> SEQ ID NO: 39

<211> 14

<212> Peptide

<213> Synthetic peptide modified from human TGB $\beta$ 1

<220> Domain: 322-335

<400> Phe Ser Leu Gly Pro Ser Pro Tyr Ile Trp Ser Leu Asp Thr  
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<210> SEQ ID NO: 40

<211> 14

<212> Peptide

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<213>" Synthetic peptide modified from human TGB $\beta$ 1
<220> Domain: 322-335
<400> Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Asp Asp Asp
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<210> SEQ ID NO: 41
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<212> Peptide
<213> Synthetic peptide modified from human TGB $\beta$ 1
<220> Domain: 322-335
<400> Asp Asp Asp Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp Thr
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<210> SEQ ID NO: 42
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<212> Peptide
<213> Synthetic peptide modified from human TGBβ1
<220> Domain: 322-335
<400> Asp Asp Asp Gly Pro Cys Pro Tyr Ile Trp Ser Asp Asp Asp
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<210> SEQ ID NO: 43
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<213> Synthetic peptide modified from human TGBβ1
<220> Domain: 325-332
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<210> SEQ ID NO: 44
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<212> Peptide
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<220> Domain: 325-332
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<210> SEQ ID NO: 45
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<220> Domain: 325-332
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<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor
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<220> Domain: 91-102  
<400> Asn Pro Ile Ala Ser Val His Thr His His Lys Pro  
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<210> SEQ ID NO: 47  
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<212> Peptide  
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<220> Domain: 104-115  
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<210> SEQ ID NO: 48  
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<212> Peptide  
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<220> Domain: 109-120  
<400> Ser Pro Gln Pro Leu Val Trp His Leu Lys Thr Glu  
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<210> SEQ ID NO: 49  
<211> 12  
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<220> Domain: 110-121  
<400> Pro Gln Pro Leu Val Trp His Leu Lys Thr Glu Arg  
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<210> SEQ ID NO: 50  
<211> 12  
<212> Peptide  
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<220> Domain: 333-344  
<400> Trp Ala Leu Asp Asn Gly Tyr Arg Pro Val Thr Ser  
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<210> SEQ ID NO: 51  
<211> 12  
<212> Peptide  
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<220> Domain: 428-439  
<400> Pro Ile Val Pro Ser Val Gln Leu Leu Pro Asp His  
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<210> SEQ ID NO: 52  
<211> 12  
<212> Peptide  
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<220> Domain: 555-566

<400> Gly Asp Glu Gly Glu Thr Ala Pro Leu Ser Arg Ala  
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<210> SEQ ID NO: 53

<211> 12

<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 563-574

<400> Leu Ser Arg Ala Gly Val Val Val Phe Asn Cys Ser  
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<210> SEQ ID NO: 54

<211> 12

<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 603-614

<400> Leu Phe Leu Val Pro Ser Pro Gly Val Phe Ser Val  
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<210> SEQ ID NO: 55

<211> 12

<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 605-616

<400> Leu Val Pro Ser Pro Gly Val Phe Ser Val Ala Glu  
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<210> SEQ ID NO: 56

<211> 12

<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 707-718

<400> Glu Leu Thr Leu Cys Ser Arg Lys Lys Gly Ser Leu  
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<210> SEQ ID NO: 57

<211> 12

<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 712-723

<400> Ser Arg Lys Lys Gly Ser Leu Lys Leu Pro Arg Cys  
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<210> SEQ ID NO: 58

<211> 12

<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 717-728

<400> Ser Leu Lys Leu Pro Arg Cys Val Thr Pro Asp Asp

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<210> SEQ ID NO: 64
<211> 12
<212> Peptide
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor
<220> Domain: 747-758
<400> Thr Phe Thr Lys Pro Leu Ala Val Val Leu Gln Val
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[illegible][illegible][illegible][illegible]

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 <211> 15  
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<210> SEQ ID NO: 80  
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 <212> Peptide  
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 <220> Domain: 85-99  
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 <212> Peptide  
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<210> SEQ ID NO: 83

<211> 15  
<212> Peptide  
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<210> SEQ ID NO: 84  
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<212> Peptide  
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5 10 15

<210> SEQ ID NO: 85  
<211> 15  
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<220> Domain: 110-124  
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5 10 15

<210> SEQ ID NO: 86  
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<212> Peptide  
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<220> Domain: 115-129  
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5 10 15

<210> SEQ ID NO: 87  
<211> 15  
<212> Peptide  
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<220> Domain: 120-134  
<400> Arg Leu Ala Ala Gly Val Pro Arg Leu Phe Leu Val Ser Glu Gly  
5 10 15

<210> SEQ ID NO: 88  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 125-139  
<400> Gly Val Pro Arg Leu Phe Leu Val Ser Glu Gly Ser Val Val Gln  
5 10 15

<210> SEQ ID NO: 89  
<211> 15

<212> Peptide  
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<220> Domain: 130-144  
<400> Phe Leu Val Ser Glu Gly Ser Val Val Gln Phe Pro Ser Gly Asn  
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<211> 15  
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<220> Domain: 135-149  
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<210> SEQ ID NO: 91  
<211> 15  
<212> Peptide  
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<220> Domain: 140-154  
<400> Phe Pro Ser Gly Asn Phe Ser Leu Thr Ala Glu Thr Glu Glu Arg  
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<210> SEQ ID NO: 92  
<211> 15  
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<220> Domain: 145-159  
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<210> SEQ ID NO: 93  
<211> 15  
<212> Peptide  
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<220> Domain: 150-164  
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<210> SEQ ID NO: 94  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 155-169  
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<210> SEQ ID NO: 95  
<211> 15  
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<220> Domain: 190-201  
 <400> Val Gly Glu Asp Gln Val Phe Pro Pro Thr Cys Asn Ile Gly Lys  
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<210> SEQ ID NO: 102  
 <211> 15  
 <212> Peptide  
 <213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
 <220> Domain: 195-209  
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<210> SEQ ID NO: 103  
 <211> 15  
 <212> Peptide  
 <213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
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<210> SEQ ID NO: 105  
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 <220> Domain: 210-224  
 <400> Asn Tyr Leu Ala Glu Tyr Leu Gln Pro Lys Ala Ala Glu Gly Cys  
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 <212> Peptide  
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 <220> Domain: 215-229  
 <400> Tyr Leu Gln Pro Lys Ala Ala Glu Gly Cys Val Leu Pro Ser Gln  
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 <211> 15  
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 <220> Domain: 220-234

<400> Ala Ala Glu Gly Cys Val Leu Pro Ser Gln Pro His Glu Lys Glu  
5 10 15

<210> SEQ ID NO: 108

<211> 15

<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 225-239

<400> Val Leu Pro Ser Gln Pro His Glu Lys Glu Val His Ile Ile Glu  
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<210> SEQ ID NO: 109

<211> 15

<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 230-244

<400> Pro His Glu Lys Glu Val His Ile Ile Glu Leu Ile Thr Pro Ser  
5 10 15

<210> SEQ ID NO: 110

<211> 15

<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 235-249

<400> Val His Ile Ile Glu Leu Ile Thr Pro Ser Ser Asn Pro Tyr Ser  
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<210> SEQ ID NO: 111

<211> 15

<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 240-254

<400> Leu Ile Thr Pro Ser Ser Asn Pro Tyr Ser Ala Phe Gln Val Asp  
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<210> SEQ ID NO: 112

<211> 15

<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 250-264

<400> Ala Phe Gln Val Asp Ile Ile Val Asp Ile Arg Pro Ala Gln Glu  
5 10 15

<210> SEQ ID NO: 113

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<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 255-269

<400> Ile Ile Val Asp Ile Arg Pro Ala Gln Glu Asp Pro Glu Val Val

<210> SEQ ID NO: 114  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 260-274  
<400> Arg Pro Ala Gln Glu Asp Pro Glu Val Val Lys Asn Leu Val Leu  
5 10 15

<210> SEQ ID NO: 115  
<211> 15  
<212> Peptide  
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5 10 15

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5 10 15

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5 10 15

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 <212> Peptide  
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 <220> Domain: 310-324  
 <400> Glu Arg Ser Met Thr Met Thr Lys Leu Val Arg Asp Asp Ile Pro  
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<210> SEQ ID NO: 144







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<212> Peptide  
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<220> Domain: 20-31  
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<212> Peptide  
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<212> Peptide  
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<212> Peptide  
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<220> Domain: 247-258  
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<210> SEQ ID NO: 161  
<211> 12  
<212> Peptide  
<213> Synthetic peptide from human alpha 2 microglobulin  
<220> Domain: 248-259  
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<210> SEQ ID NO: 168
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<210> SEQ ID NO: 169  
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<210> SEQ ID NO: 170  
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<213> Synthetic peptide from human alpha 2 microglobulin  
<220> Domain: 876-887  
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<210> SEQ ID NO: 171  
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<220> Domain: 1001-1012  
<400> Lys Ser Lys Ile Gly Tyr Leu Asn Thr Gly Tyr  
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<220> Domain: 1193-1204  
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<210> SEQ ID NO: 175

<211> 12 "  
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<220> Domain: 1209-1220  
<400> Thr Ser Tyr Val Leu Leu Ala Tyr Leu Thr Gln Ala  
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<220> Domain: 1211-1222  
<400> Tyr Val Leu Leu Ala Tyr Leu Thr Ala Gln Pro Ala  
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<220> Domain: 1232-1243  
<400> Tyr Gly Arg Asn Gln Gly Asn Thr Trp Leu Thr Ala  
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<210> SEQ ID NO: 179  
<211> 12  
<212> Peptide  
<213> Synthetic peptide from human alpha 2 microglobulin  
<220> Domain: 1234-1245  
<400> Arg Asn Gln Gly Asn Thr Trp Leu Thr Ala Phe Val  
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<110> EZQUERRO SAENZ, Ignacio Jose  
LASARTE SAGASTIBELZA, Juan Jose  
PRIETO VALTUEÑA, Jesus  
BORRAS CUESTA, Francisco

<120> TGF $\beta$ 1-inhibitor peptides

<130> U-013446-9

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<141> 2001-06-27

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<151> 1999-11-23

<150> P9802465

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<210> SEQ ID NO: 1

<211> 15

<212> Peptide

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<223> Derived from human TGF $\beta$ 1 position 319-333

<400> His Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu  
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<210> SEQ ID NO: 2

<211> 14

<212> Peptide

<213> Artificial sequence

<220> Domain

<223> Derived from human TGF $\beta$ 1 position 322-335

<400> Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp Thr  
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<210> SEQ ID NO: 3

<211> 12

<212> Peptide

<213> Artificial sequence

<220> Domain

<223> Derived from rat TGF $\beta$ 1 type III receptor position 731-742

<400> Thr Ser Leu Asp Ala Thr Met Ile Trp Thr Met Met  
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<210> SEQ ID NO: 4

<211> 15

<212> Peptide

<213> Artificial sequence  
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<400> Ser Asn Pro Tyr Ser Ala Phe Gln Val Asp Ile Ile Val Asp Ile  
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<210> SEQ ID NO: 5  
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<210> SEQ ID NO: 6  
<211> 14  
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<400> Thr Ser Leu Asp Ala Ser Ile Ile Trp Ala Met Met Gln Asn  
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<210> SEQ ID NO: 7  
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<220> Domain: 241-254  
<400> Ser Asn Pro Tyr Ser Ala Phe Gln Val Asp Ile Thr Ile Asp  
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<210> SEQ ID NO: 8  
<211> 15  
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<220> Domain: 247-261  
<400> Glu Ala Val Leu Ile Leu Gln Gly Pro Pro Tyr Val Ser Trp Leu  
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<210> SEQ ID NO: 9  
<211> 15  
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<220> Domain: 445-459  
<400> Leu Asp Ser Leu Ser Phe Gln Leu Gly Leu Tyr Leu Ser Pro His  
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<210> SEQ ID NO: 10  
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<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 313-335

<400> His Glu Pro Lys Gly Tyr His Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr  
5 10 15

Ile Trp Ser Leu Asp Thr  
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<210> SEQ ID NO: 11

<211> 14

<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 280-293

<400> Ala Leu Asp Thr Asn Tyr Cys Phe Ser Ser Thr Glu Lys Asn  
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<210> SEQ ID NO: 12

<211> 13

<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 284-297

<400> Asn Tyr Cys Ser Ser Thr Glu Lys Asn Cys Cys Val Arg  
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<210> SEQ ID NO: 13

<211> 14

<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 288-301

<400> Ser Ser Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile  
5 10

<210> SEQ ID NO: 14

<211> 14

<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 294-307

<400> Cys Cys Val Arg Gln Leu Tyr Ile Asp Phe Arg Lys Asp Leu  
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<210> SEQ ID NO: 15

<211> 14

<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 298-311

<400> Gln Leu Tyr Ile Asp Phe Arg Lys Asp Leu Gly Trp Lys Trp  
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<210> SEQ ID NO: 16

<211> 14

<212> Peptide  
<213> Synthetic peptide from human TGB $\beta$ 1  
<220> Domain: 302-315  
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<210> SEQ ID NO: 17  
<211> 14  
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<220> Domain: 306-319  
<400> Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr His  
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<210> SEQ ID NO: 18  
<211> 14  
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<220> Domain: 308-321  
<400> Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr His Ala Asn  
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<210> SEQ ID NO: 19  
<211> 14  
<212> Peptide  
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<220> Domain: 312-325  
<400> Ile His Glu Pro Lys Gly Tyr His Ala Asn Phe Cys Leu Gly  
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<210> SEQ ID NO: 20  
<211> 14  
<212> Peptide  
<213> Synthetic peptide from human TGB $\beta$ 1  
<220> Domain: 316-329  
<400> Lys Gly Tyr His Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr  
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<210> SEQ ID NO: 21  
<211> 14  
<212> Peptide  
<213> Synthetic peptide from human TGB $\beta$ 1  
<220> Domain: 326-339  
<400> Pro Cys Pro Tyr Ile Trp Ser Leu Asp Thr Gln Tyr Ser Lys  
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<210> SEQ ID NO: 22  
<211> 14  
<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 330-343

<400> Ile Trp Ser Leu Asp Thr Gln Tyr Ser Lys Val Leu Ala Leu  
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<210> SEQ ID NO: 23

<211> 15

<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 335-349

<400> Thr Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro  
5 10 15

<210> SEQ ID NO: 24

<211> 14

<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 336-349

<400> Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro  
5 10

<210> SEQ ID NO: 25

<211> 14

<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 340-353

<400> Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly Ala Ser Ala  
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<210> SEQ ID NO: 26

<211> 15

<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 343-358

<400> Leu Tyr Asn Gln His Asn Pro Gly Ala Ser Ala Ala Pro Cys Cys  
5 10 15

<210> SEQ ID NO: 27

<211> 14

<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 344-358

<400> Tyr Asn Gln His Asn Pro Gly Ala Ser Ala Ala Pro Cys Cys  
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<210> SEQ ID NO: 28

<211> 13

<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 348-360

<400> Asn Pro Gly Ala Ser Ala Ala Pro Cys Cys Val Pro Gln  
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<210> SEQ ID NO: 29

<211> 14

<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 350-363

<400> Gly Ala Ser Ala Ala Pro Cys Cys Val Pro Gln Ala Leu Glu  
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<210> SEQ ID NO: 30

<211> 14

<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 354-367

<400> Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro Ile  
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<210> SEQ ID NO: 31

<211> 14

<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 358-371

<400> Val Pro Gln Ala Leu Glu Pro Leu Pro Ile Val Tyr Tyr Val  
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<210> SEQ ID NO: 32

<211> 14

<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 364-377

<400> Pro Leu Pro Ile Val Tyr Tyr Val Gly Arg Lys Pro Lys Val  
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<210> SEQ ID NO: 33

<211> 14

<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 368-381

<400> Val Tyr Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser  
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<210> SEQ ID NO: 34

<211> 14

<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 372-385

<400> Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn Met Ile Val  
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<210> SEQ ID NO: 35

<211> 14

<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 378-391

<400> Glu Gln Leu Ser Asn Met Ile Val Arg Ser Cys Lys Cys Ser  
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<210> SEQ ID NO: 36

<211> 21

<212> Peptide

<213> Synthetic peptide from human TGB $\beta$ 1

<220> Domain: 322-344

<400> Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp Thr Gln Lys Val  
5 10 15

Leu Ala Leu Tyr  
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<210> SEQ ID NO: 37

<211> 14

<212> Peptide

<213> Synthetic peptide modified from human TGB $\beta$ 1

<220> Domain: 322-335

<400> Phe Ser Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp Thr  
5 10

<210> SEQ ID NO: 38

<211> 14

<212> Peptide

<213> Synthetic peptide modified from human TGB $\beta$ 1

<220> Domain: 322-335

<400> Phe Cys Leu Gly Pro Ser Pro Tyr Ile Trp Ser Leu Asp Thr  
5 10

<210> SEQ ID NO: 39

<211> 14

<212> Peptide

<213> Synthetic peptide modified from human TGB $\beta$ 1

<220> Domain: 322-335

<400> Phe Ser Leu Gly Pro Ser Pro Tyr Ile Trp Ser Leu Asp Thr  
5 10

<210> SEQ ID NO: 40

<211> 14

<212> Peptide



<220> Domain: 91-102  
<400> Asn Pro Ile Ala Ser Val His Thr His His Lys Pro  
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<210> SEQ ID NO: 47  
<211> 12  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 104-115  
<400> Val Phe Leu Leu Asn Ser Pro Gln Pro Leu Val Trp  
5 10

<210> SEQ ID NO: 48  
<211> 12  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 109-120  
<400> Ser Pro Gln Pro Leu Val Trp His Leu Lys Thr Glu  
5 10

<210> SEQ ID NO: 49  
<211> 12  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 110-121  
<400> Pro Gln Pro Leu Val Trp His Leu Lys Thr Glu Arg  
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<210> SEQ ID NO: 50  
<211> 12  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 333-344  
<400> Trp Ala Leu Asp Asn Gly Tyr Arg Pro Val Thr Ser  
5 10

<210> SEQ ID NO: 51  
<211> 12  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 428-439  
<400> Pro Ile Val Pro Ser Val Gln Leu Leu Pro Asp His  
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<210> SEQ ID NO: 52  
<211> 12  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 555-566

<400> Gly Asp Glu Gly Glu Thr Ala Pro Leu Ser Arg Ala  
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<210> SEQ ID NO: 53

<211> 12

<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 563-574

<400> Leu Ser Arg Ala Gly Val Val Val Phe Asn Cys Ser  
5 10

<210> SEQ ID NO: 54

<211> 12

<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 603-614

<400> Leu Phe Leu Val Pro Ser Pro Gly Val Phe Ser Val  
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<210> SEQ ID NO: 55

<211> 12

<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 605-616

<400> Leu Val Pro Ser Pro Gly Val Phe Ser Val Ala Glu  
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<210> SEQ ID NO: 56

<211> 12

<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 707-718

<400> Glu Leu Thr Leu Cys Ser Arg Lys Lys Gly Ser Leu  
5 10

<210> SEQ ID NO: 57

<211> 12

<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 712-723

<400> Ser Arg Lys Lys Gly Ser Leu Lys Leu Pro Arg Cys  
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<210> SEQ ID NO: 58

<211> 12

<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 717-728

<400> Ser Leu Lys Leu Pro Arg Cys Val Thr Pro Asp Asp



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<210> SEQ ID NO: 59
<211> 12
<212> Peptide
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor
<220> Domain: 722-733
<400> Arg Cys Val Thr Pro Asp Asp Ala Cys Thr Ser Leu
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<210> SEQ ID NO: 60
<211> 12
<212> Peptide
<213> Synthetic peptide from rat TGBβ1 type III receptor
<220> Domain: 727-738
<400> Asp Asp Ala Cys Thr Ser Leu Asp Ala Thr Met Ile
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<210> SEQ ID NO: 61
<211> 12
<212> Peptide
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor
<220> Domain: 732-743
<400> Ser Leu Asp Ala Thr Met Ile Trp Thr Met Met Gln
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<210> SEQ ID NO: 62
<211> 12
<212> Peptide
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor
<220> Domain: 737-748
<400> Met Ile Trp Thr Met Met Gln Asn Lys Lys Thr Phe
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<210> SEQ ID NO: 63
<211> 12
<212> Peptide
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor
<220> Domain: 742-752
<400> Met Gln Asn Lys Lys Thr Phe Thr Lys Pro Leu Ala
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<210> SEQ ID NO: 64
<211> 12
<212> Peptide
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor
<220> Domain: 747-758
<400> Thr Phe Thr Lys Pro Leu Ala Val Val Leu Gln Val
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<210> SEQ ID NO: 67
<211> 15
<212> Peptide
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor
<220> Domain: 771-785
<400> Ser Pro Ile Pro Pro Pro Pro Gln Ile Phe His Gly Leu Asp
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<210> SEQ ID NO: 68  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 776-790  
<400> Pro Pro Pro Gln Ile Phe His Gly Leu Asp Thr Leu Thr Val Met  
                    5                                10                        15
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[illegible]

<210> SEQ ID NO: 71

<211> 15

<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 797-809

<400> Leu Leu Thr Gly Ala Leu Trp Tyr Ile Tyr Ser His  
5 10

<210> SEQ ID NO: 72

<211> 15

<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 45-59

<400> Leu Met Glu Ser Phe Thr Val Leu Ser Gly Cys Ala Ser Arg Gly  
5 10 15

<210> SEQ ID NO: 73

<211> 15

<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 50-64

<400> Thr Val Leu Ser Gly Cys Ala Ser Arg Gly Thr Thr Gly Leu Pro  
5 10 15

<210> SEQ ID NO: 74

<211> 15

<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 55-69

<400> Cys Ala Ser Arg Gly Thr Thr Gly Leu Pro Arg Glu Val His Val  
5 10 15

<210> SEQ ID NO: 75

<211> 15

<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 60-74

<400> Thr Thr Gly Leu Pro Arg Glu Val His Val Leu Asn Leu Arg Ser  
5 10 15

<210> SEQ ID NO: 76

<211> 15

<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 65-79

<400> Arg Glu Val His Val Leu Asn Leu Arg Ser Thr Asp Gln Gly Pro  
5 10 15

<210> SEQ ID NO: 77  
 <211> 15  
 <212> Peptide  
 <213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
 <220> Domain: 70-84  
 <400> Leu Asn Leu Arg Ser Thr Asp Gln Gly Pro Gly Gln Arg Gln Arg  
   5  10  15

<210> SEQ ID NO: 78  
 <211> 15  
 <212> Peptide  
 <213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
 <220> Domain: 75-89  
 <400> Thr Asp Gln Gly Pro Gly Gln Arg Gln Arg Glu Val Thr Leu His  
   5  10  15

<210> SEQ ID NO: 79  
 <211> 15  
 <212> Peptide  
 <213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
 <220> Domain: 80-94  
 <400> Gly Gln Arg Gln Arg Glu Val Thr Leu His Leu Asn Pro Ile Ala  
   5  10  15

<210> SEQ ID NO: 80  
 <211> 15  
 <212> Peptide  
 <213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
 <220> Domain: 85-99  
 <400> Glu Val Thr Leu His Leu Asn Pro Ile Ala Ser Val His Thr His  
   5  10  15

<210> SEQ ID NO: 81  
 <211> 15  
 <212> Peptide  
 <213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
 <220> Domain: 90-104  
 <400> Leu Asn Pro Ile Ala Ser Val His Thr His His Lys Pro Ile Val  
   5  10  15

<210> SEQ ID NO: 82  
 <211> 15  
 <212> Peptide  
 <213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
 <220> Domain: 95-109  
 <400> Ser Val His Thr His His Lys Pro Ile Val Phe Leu Leu Asn Ser  
   5  10  15

<210> SEQ ID NO: 83

<211> 15 " .  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 100-114  
<400> His Lys Pro Ile Val Phe Leu Leu Asn Ser Pro Gln Pro Leu Val  
5 10 15

<210> SEQ ID NO: 84  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 105-119  
<400> Phe Leu Leu Asn Ser Pro Gln Pro Leu Val Trp His Leu Lys Thr  
5 10 15

<210> SEQ ID NO: 85  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 110-124  
<400> Pro Gln Pro Leu Val Trp His Leu Lys Thr Glu Arg Leu Ala Ala  
5 10 15

<210> SEQ ID NO: 86  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 115-129  
<400> Trp His Leu Lys Thr Glu Arg Leu Ala Ala Gly Val Pro Arg Leu  
5 10 15

<210> SEQ ID NO: 87  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 120-134  
<400> Arg Leu Ala Ala Gly Val Pro Arg Leu Phe Leu Val Ser Glu Gly  
5 10 15

<210> SEQ ID NO: 88  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 125-139  
<400> Gly Val Pro Arg Leu Phe Leu Val Ser Glu Gly Ser Val Val Gln  
5 10 15

<210> SEQ ID NO: 89  
<211> 15

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<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 130-144  
<400> Phe Leu Val Ser Glu Gly Ser Val Val Gln Phe Pro Ser Gly Asn  
                    5              10              15
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<210> SEQ ID NO: 90  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 135-149  
<400> Gly Ser Val Val Gln Phe Pro Ser Gly Asn Phe Ser Leu Thr Ala  
                    5                               10                      15
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<210> SEQ ID NO: 91  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 140-154  
<400> Phe Pro Ser Gly Asn Phe Ser Leu Thr Ala Glu Thr Glu Glu Arg  
                    5              10             15
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<210> SEQ ID NO: 92  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 145-159  
<400> Phe Ser Leu Thr Ala Glu Thr Glu Glu Arg Asn Phe Pro Gln Glu  
                    5                                10                        15
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[illegible][illegible]

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<210> SEQ ID NO: 95
<211> 15
<212> Peptide
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<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 160-174  
<400> Asn Glu His Leu Val Arg Trp Ala Gln Lys Glu Tyr Gly Ala Val  
5 10 15

<210> SEQ ID NO: 96  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 165-179  
<400> Arg Trp Ala Gln Lys Glu Tyr Gly Ala Val Thr Ser Phe Thr Glu  
5 10 15

<210> SEQ ID NO: 97  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 170-184  
<400> Glu Tyr Gly Ala Val Thr Ser Phe Thr Glu Leu Lys Ile Ala Arg  
5 10 15

<210> SEQ ID NO: 98  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 175-189  
<400> Thr Ser Phe Thr Glu Leu Lys Ile Ala Arg Asn Ile Tyr Ile Lys  
5 10 15

<210> SEQ ID NO: 99  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 180-194  
<400> Leu Lys Ile Ala Arg Asn Ile Tyr Ile Lys Val Gly Glu Asp Gln  
5 10 15

<210> SEQ ID NO: 100  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 185-199  
<400> Asn Ile Tyr Ile Lys Val Gly Glu Asp Gln Val Phe Pro Pro Thr  
5 10 15

<210> SEQ ID NO: 101  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domăin: 190-201  
<400> Val Gly Glu Asp Gln Val Phe Pro Pro Thr Cys Asn Ile Gly Lys  
5 10 15

<210> SEQ ID NO: 102  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 195-209  
<400> Val Phe Pro Pro Thr Cys Asn Ile Gly Lys Asn Phe Leu Ser Leu  
5 10 15

<210> SEQ ID NO: 103  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 200-214  
<400> Cys Asn Ile Gly Lys Asn Phe Leu Ser Leu Asn Tyr Leu Ala Glu  
5 10 15

<210> SEQ ID NO: 104  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 205-219  
<400> Asn Phe Leu Ser Leu Asn Tyr Leu Ala Glu Tyr Leu Gln Pro Lys  
5 10 15

<210> SEQ ID NO: 105  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 210-224  
<400> Asn Tyr Leu Ala Glu Tyr Leu Gln Pro Lys Ala Ala Glu Gly Cys  
5 10 15

<210> SEQ ID NO: 106  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 215-229  
<400> Tyr Leu Gln Pro Lys Ala Ala Glu Gly Cys Val Leu Pro Ser Gln  
5 10 15

<210> SEQ ID NO: 107  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 220-234



<400> Ala<sup>\*</sup>Ala Glu Gly Cys Val Leu Pro Ser Gln Pro His Glu Lys Glu  
5 10 15

<210> SEQ ID NO: 108

<211> 15

<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 225-239

<400> Val Leu Pro Ser Gln Pro His Glu Lys Glu Val His Ile Ile Glu  
5 10 15

<210> SEQ ID NO: 109

<211> 15

<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 230-244

<400> Pro His Glu Lys Glu Val His Ile Ile Glu Leu Ile Thr Pro Ser  
5 10 15

<210> SEQ ID NO: 110

<211> 15

<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 235-249

<400> Val His Ile Ile Glu Leu Ile Thr Pro Ser Ser Asn Pro Tyr Ser  
5 10 15

<210> SEQ ID NO: 111

<211> 15

<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 240-254

<400> Leu Ile Thr Pro Ser Ser Asn Pro Tyr Ser Ala Phe Gln Val Asp  
5 10 15

<210> SEQ ID NO: 112

<211> 15

<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 250-264

<400> Ala Phe Gln Val Asp Ile Ile Val Asp Ile Arg Pro Ala Gln Glu  
5 10 15

<210> SEQ ID NO: 113

<211> 15

<212> Peptide

<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor

<220> Domain: 255-269

<400> Ile Ile Val Asp Ile Arg Pro Ala Gln Glu Asp Pro Glu Val Val

5

10

15

[illegible]

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<210> SEQ ID NO: 115  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 265-279  
<400> Asp Pro Glu Val Val Lys Asn Leu Val Leu Ile Leu Lys Cys Lys  
                    5              10              15
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<210> SEQ ID NO: 116  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 270-284  
<400> Lys Asn Leu Val Leu Ile Leu Lys Cys Lys Lys Ser Val Asn Trp  
                    5                      10                     15
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[illegible][illegible][illegible]

<210> SEQ ID NO: 120  
 <211> 15  
 <212> Peptide  
 <213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
 <220> Domain: 290-304  
 <400> Asp Val Lys Gly Asn Leu Lys Val Ile Ala Pro Asn Ser Ile Gly  
                                   5                                  10                                  15

<210> SEQ ID NO: 121  
 <211> 15  
 <212> Peptide  
 <213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
 <220> Domain: 295-309  
 <400> Leu Lys Val Ile Ala Pro Asn Ser Ile Gly Phe Gly Lys Glu Ser  
                                   5                                  10                                  15

<210> SEQ ID NO: 122  
 <211> 15  
 <212> Peptide  
 <213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
 <220> Domain: 300-314  
 <400> Pro Asn Ser Ile Gly Phe Gly Lys Glu Ser Glu Arg Ser Met Thr  
                                   5                                  10                                  15

<210> SEQ ID NO: 123  
 <211> 15  
 <212> Peptide  
 <213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
 <220> Domain: 305-319  
 <400> Phe Gly Lys Glu Ser Glu Arg Ser Met Thr Met Thr Lys Leu Val  
                                   5                                  10                                  15

<210> SEQ ID NO: 124  
 <211> 15  
 <212> Peptide  
 <213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
 <220> Domain: 310-324  
 <400> Glu Arg Ser Met Thr Met Thr Lys Leu Val Arg Asp Asp Ile Pro  
                                   5                                  10                                  15

<210> SEQ ID NO: 125  
 <211> 15  
 <212> Peptide  
 <213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
 <220> Domain: 325-329  
 <400> Met Thr Lys Leu Val Arg Asp Asp Ile Pro Ser Thr Gln Glu Asn  
                                   5                                  10                                  15

<210> SEQ ID NO: 126  
 <211> 15  
 <212> Peptide  
 <213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
 <220> Domain: 320-334  
 <400> Arg Asp Asp Ile Pro Ser Thr Gln Glu Asn Leu Met Lys Trp Ala  
                                   5                                  10                                  15

<210> SEQ ID NO: 127  
 <211> 15  
 <212> Peptide  
 <213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
 <220> Domain: 325-339  
 <400> Ser Thr Gln Glu Asn Leu Met Lys Trp Ala Leu Asp Asn Gly Tyr  
                                   5                                  10                                  15

<210> SEQ ID NO: 128  
 <211> 15  
 <212> Peptide  
 <213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
 <220> Domain: 330-344  
 <400> Leu Met Lys Trp Ala Leu Asp Asn Gly Tyr Arg Pro Val Thr Ser  
                                   5                                  10                                  15

<210> SEQ ID NO: 129  
 <211> 15  
 <212> Peptide  
 <213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
 <220> Domain: 335-349  
 <400> Leu Asp Asn Gly Tyr Arg Pro Val Thr Ser Tyr Thr Met Ala Pro  
                                   5                                  10                                  15

<210> SEQ ID NO: 130  
 <211> 15  
 <212> Peptide  
 <213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
 <220> Domain: 340-354  
 <400> Arg Pro Val Thr Ser Tyr Thr Met Ala Pro Val Ala Asn Arg Phe  
                                   5                                  10                                  15

<210> SEQ ID NO: 131  
 <211> 15  
 <212> Peptide  
 <213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
 <220> Domain: 345-359  
 <400> Tyr Thr Met Ala Pro Val Ala Asn Arg Phe His Leu Arg Leu Glu  
                                   5                                  10                                  15



<210> SEQ ID NO: 138  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 380-394  
<400> Leu Asp Pro Asp His Pro Pro Ala Leu Asp Asn Pro Leu Phe Pro  
                                  5                                  10                                  15

<210> SEQ ID NO: 139  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 385-399  
<400> Pro Pro Ala Leu Asp Asn Pro Leu Phe Pro Gly Glu Gly Ser Pro  
                                  5                                  10                                  15

<210> SEQ ID NO: 140  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 390-404  
<400> Asn Pro Leu Phe Pro Gly Glu Gly Ser Pro Asn Gly Gly Leu Pro  
                                  5                                  10                                  15

<210> SEQ ID NO: 141  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 395-409  
<400> Gly Glu Gly Ser Pro Asn Gly Gly Leu Pro Phe Pro Phe Pro Asp  
                                  5                                  10                                  15

<210> SEQ ID NO: 142  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 400-414  
<400> Asn Gly Gly Leu Pro Phe Pro Phe Pro Asp Ile Pro Arg Arg Gly  
                                  5                                  10                                  15

<210> SEQ ID NO: 143  
<211> 15  
<212> Peptide  
<213> Synthetic peptide from rat TGB $\beta$ 1 type III receptor  
<220> Domain: 405-419  
<400> Phe Pro Phe Pro Asp Ile Pro Arg Arg Gly Trp Lys Glu Gly Glu  
                                  5                                  10                                  15

<210> SEQ ID NO: 144







<220> Domain: 13-24  
<400> Leu Leu Leu Leu Val Leu Leu Pro Thr Asp Ala Ser  
                                  5                                  10

<210> SEQ ID NO: 156  
<211> 12  
<212> Peptide  
<213> Synthetic peptide from human alpha 2 microglobulin  
<220> Domain: 20-31  
<400> Pro Thr Asp Ala Ser Val Ser Gly Lys Pro Gln Tyr  
                                  5                                  10

<210> SEQ ID NO: 157  
<211> 12  
<212> Peptide  
<213> Synthetic peptide from human alpha 2 microglobulin  
<220> Domain: 44-55  
<400> Thr Glu Lys Gly Cys Val Leu Leu Ser Tyr Leu Asn  
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<210> SEQ ID NO: 158  
<211> 12  
<212> Peptide  
<213> Synthetic peptide from human alpha 2 microglobulin  
<220> Domain: 166-177  
<400> Tyr Ile Gln Asp Pro Lys Gly Asn Arg Ile Ala Gln  
                                  5                                  10

<210> SEQ ID NO: 159  
<211> 12  
<212> Peptide  
<213> Synthetic peptide from human alpha 2 microglobulin  
<220> Domain: 192-203  
<400> Phe Pro Leu Ser Ser Glu Pro Phe Gln Gly Ser Tyr  
                                  5                                  10

<210> SEQ ID NO: 160  
<211> 12  
<212> Peptide  
<213> Synthetic peptide from human alpha 2 microglobulin  
<220> Domain: 247-258  
<400> Asn Val Ser Val Cys Gly Leu Tyr Thr Tyr Gly Lys  
                                  5                                  10

<210> SEQ ID NO: 161  
<211> 12  
<212> Peptide  
<213> Synthetic peptide from human alpha 2 microglobulin  
<220> Domain: 248-259  
<400> Val Ser Val Cys Gly Leu Tyr Thr Tyr Gly Lys Pro

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<210> SEQ ID NO: 168
<211> 12
<212> Peptide
<213> Synthetic peptide from human alpha 2 microglobulin
<220> Domain: 827-838
<400> Gln Leu Glu Ala Ser Pro Ala Phe Leu Ala Val Pro
          5                               10

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<210> SEQ ID NO: 169  
<211> 12  
<212> Peptide  
<213> Synthetic peptide from human alpha 2 microglobulin  
<220> Domain: 825-836  
<400> Ser Val Gln Leu Glu Ala Ser Pro Ala Phe Leu Ala  
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<210> SEQ ID NO: 170  
<211> 12  
<212> Peptide  
<213> Synthetic peptide from human alpha 2 microglobulin  
<220> Domain: 876-887  
<400> Ala Leu Glu Ser Gln Glu Leu Cys Gly Thr Glu Val  
                                  5                                  10

<210> SEQ ID NO: 171  
<211> 11  
<212> Peptide  
<213> Synthetic peptide from human alpha 2 microglobulin  
<220> Domain: 1001-1012  
<400> Lys Ser Lys Ile Gly Tyr Leu Asn Thr Gly Tyr  
                                  5                                  10

<210> SEQ ID NO: 172  
<211> 12  
<212> Peptide  
<213> Synthetic peptide from human alpha 2 microglobulin  
<220> Domain: 1005-1016  
<400> Ile Gly Tyr Leu Asn Thr Gly Tyr Gln Arg Gln Leu  
                                  5                                  10

<210> SEQ ID NO: 173  
<211> 12  
<212> Peptide  
<213> Synthetic peptide from human alpha 2 microglobulin  
<220> Domain: 1162-1173  
<400> Lys Arg Lys Glu Val Leu Lys Ser Leu Asn Glu Glu  
                                  5                                  10

<210> SEQ ID NO: 174  
<211> 12  
<212> Peptide  
<213> Synthetic peptide from human alpha 2 microglobulin  
<220> Domain: 1193-1204  
<400> Val Gly His Phe Tyr Glu Pro Gln Ala Pro Ser Ala  
                                  5                                  10

<210> SEQ ID NO: 175

